

Title: SEARCH-ON-THE-FLY WITH MERGE FUNCTION

Inventor(s): Joseph L. DeBellis

Contact Name: Aldo Noto (703) 288-5149

Attorney Docket No.: 5607

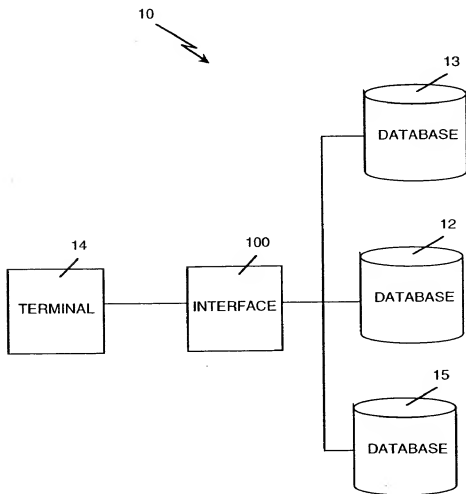


FIG. 1

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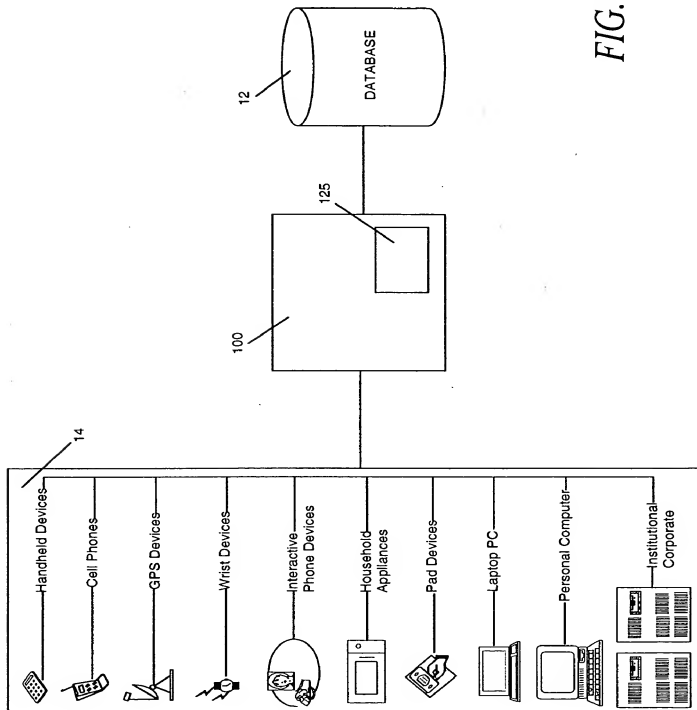


FIG. 2

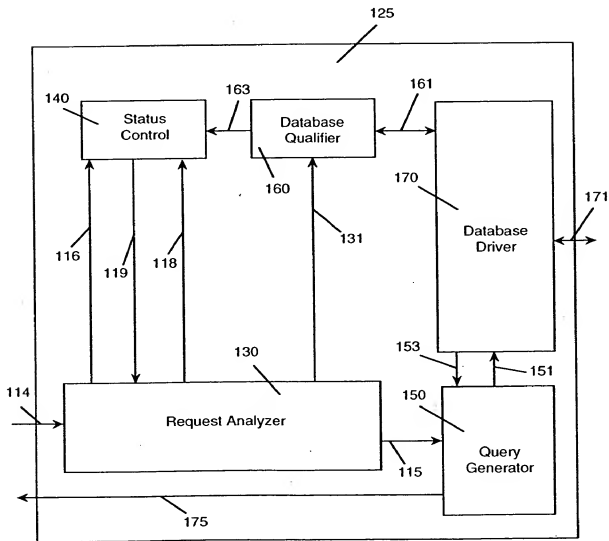


FIG. 3

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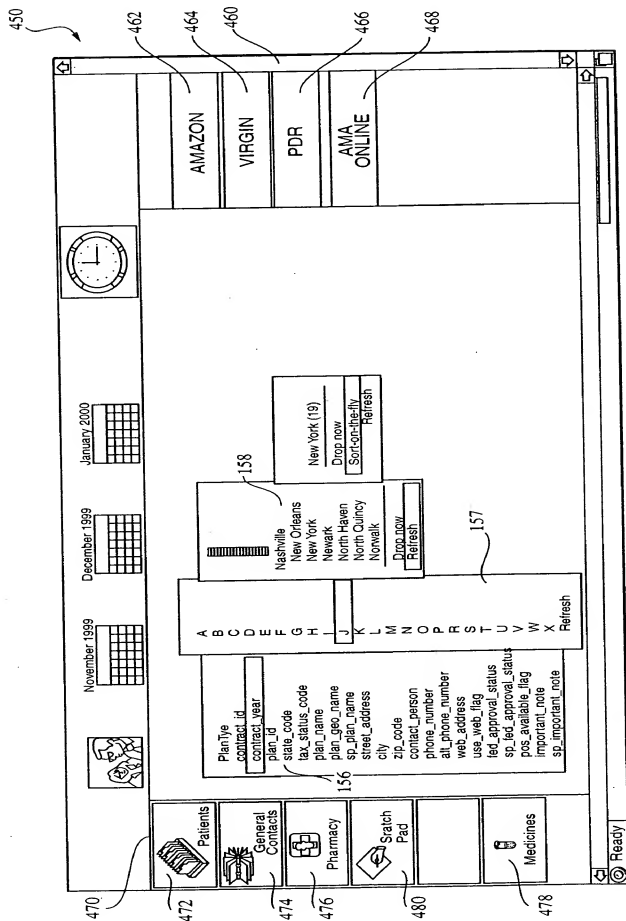


FIG. 4

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Inventor(s): Joseph L. DeBellis

Contact Name: Aldo Noto (703) 288-5222

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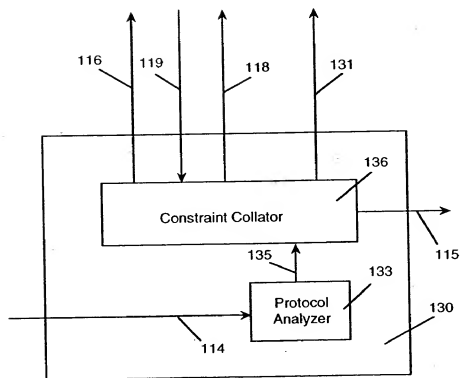


FIG. 5

099355665-082401

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Inventor(s): Joseph L. DeBellis

Contact Name: Aldo Noto (703) 288-5220

Attorney Docket No.: 5607

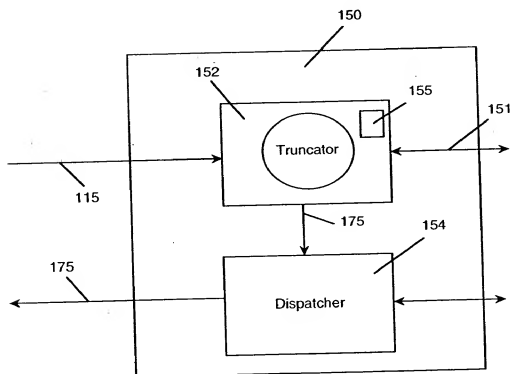


FIG. 6

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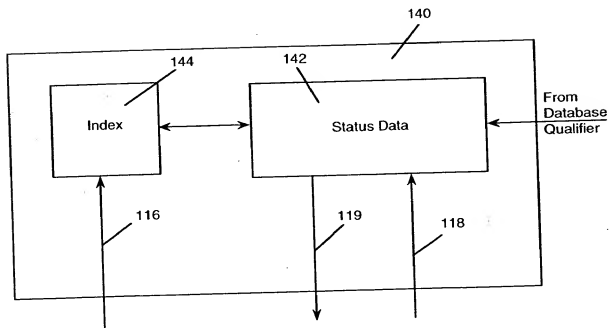


FIG. 7

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Inventor(s): Joseph L. DeBellis

Contact Name: Aldo Noto (703) 288-5200

Attorney Docket No.: 5607

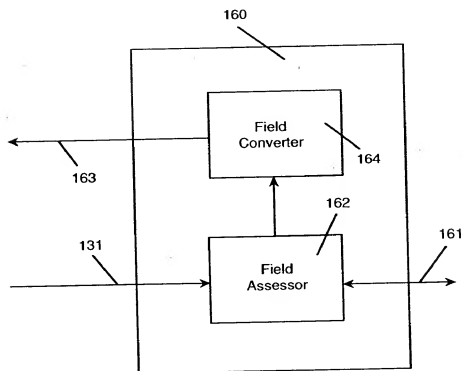


FIG. 8

09935565-082401

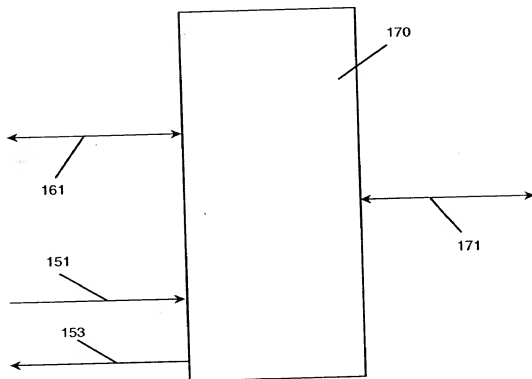


FIG. 9

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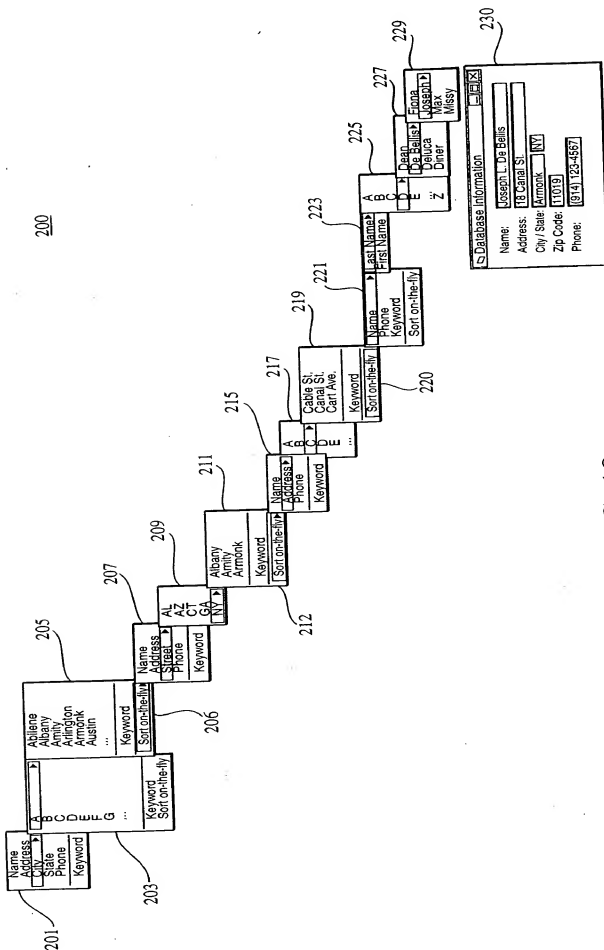


FIG. 10

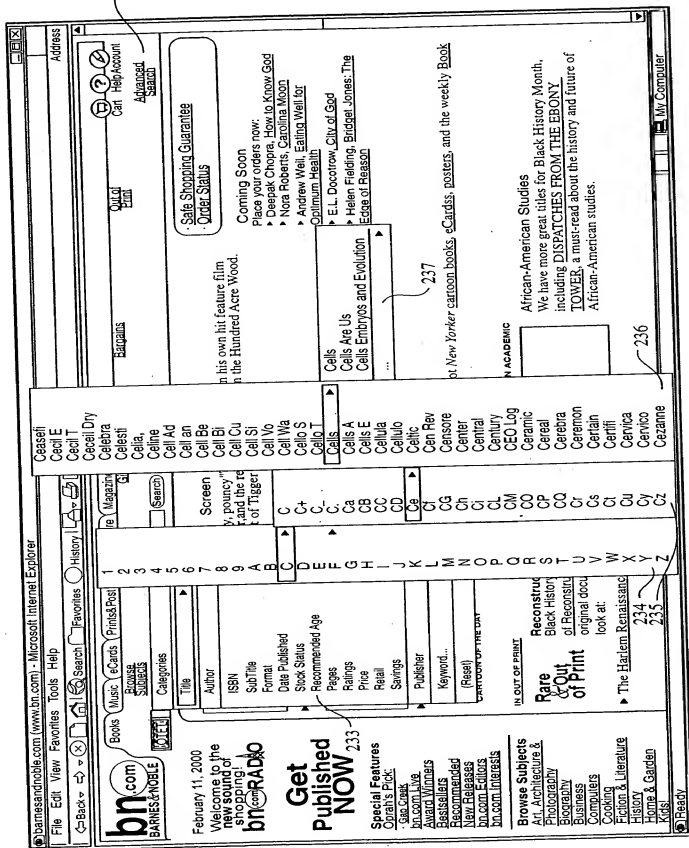
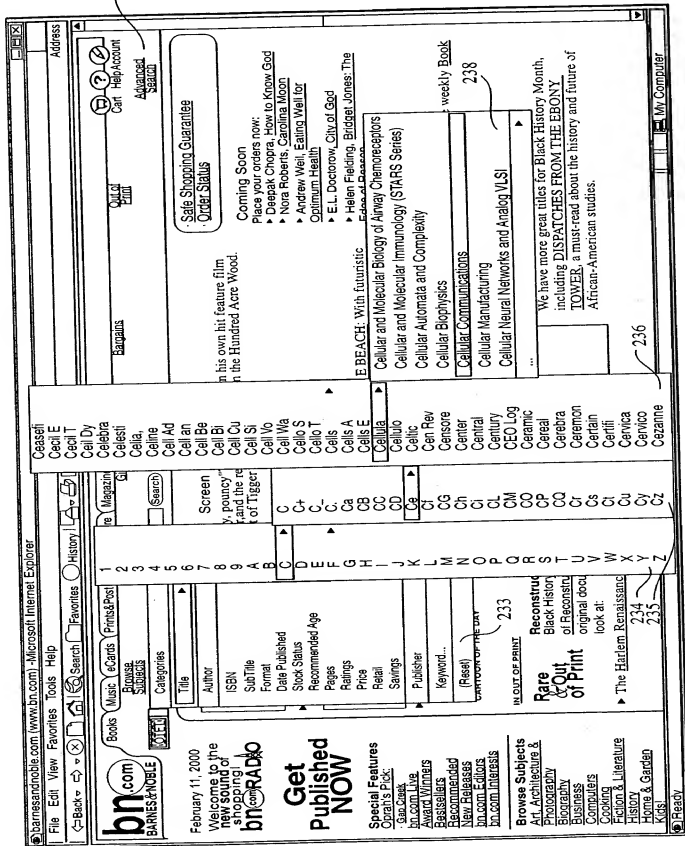
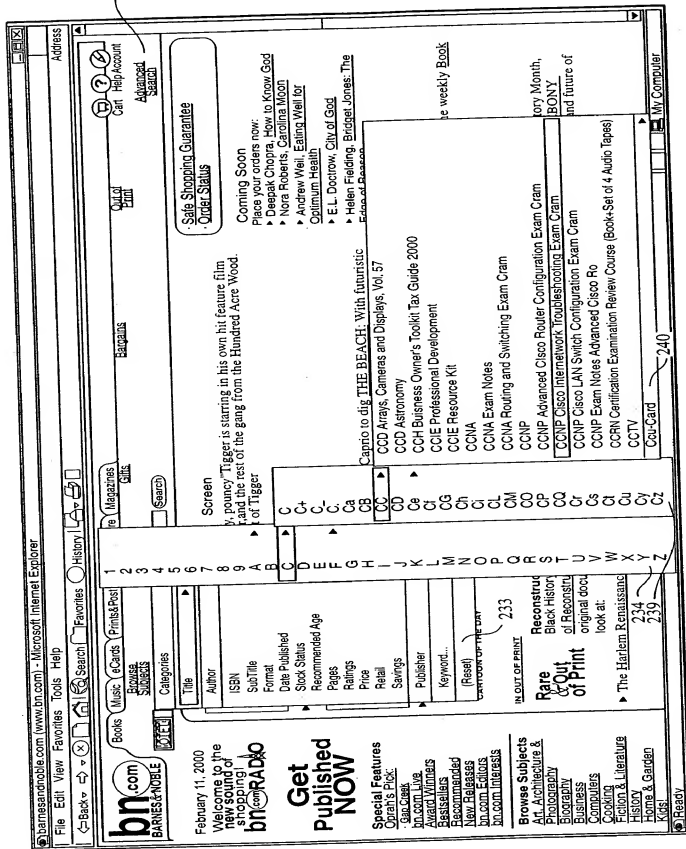


FIG. 11





FOI-280-5955E660

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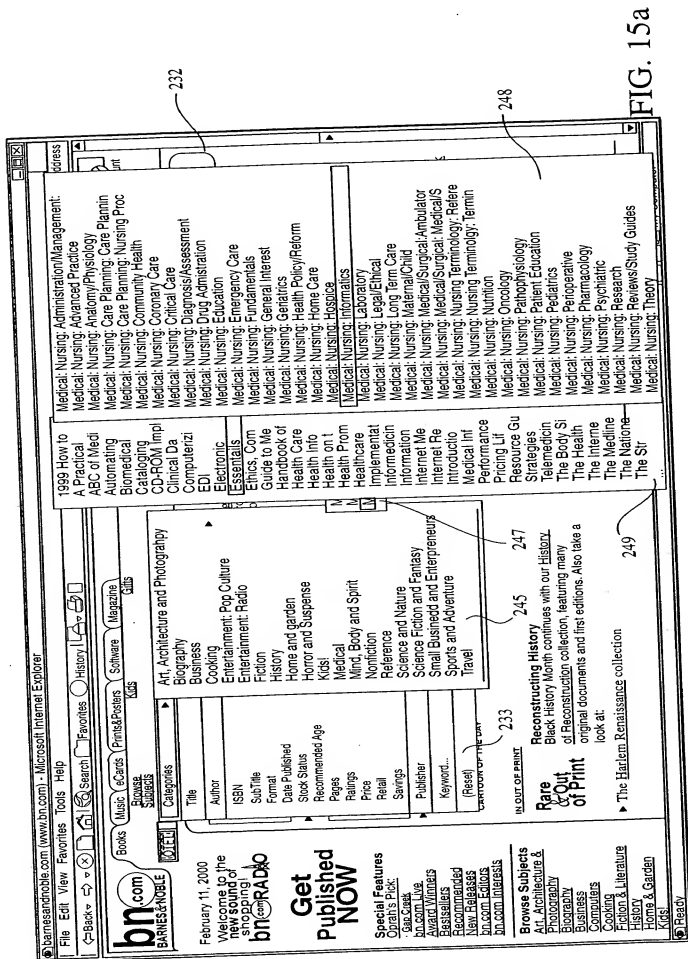
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FIG. 14

104280 " 59555660

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 Inventor(s): Joseph L. DeBellis
 Contact Name: Aldo Noto (703) 288-5268
 Attorney Docket No.: 5607



00935565-082401

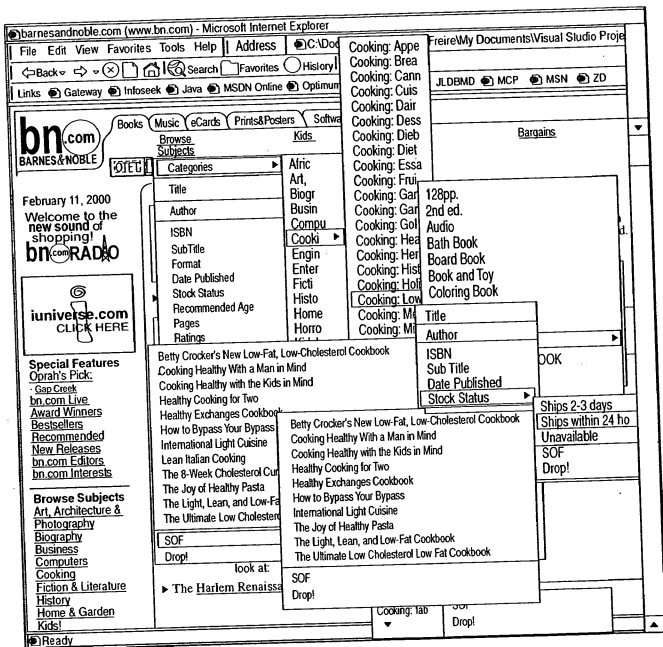


FIG. 15b

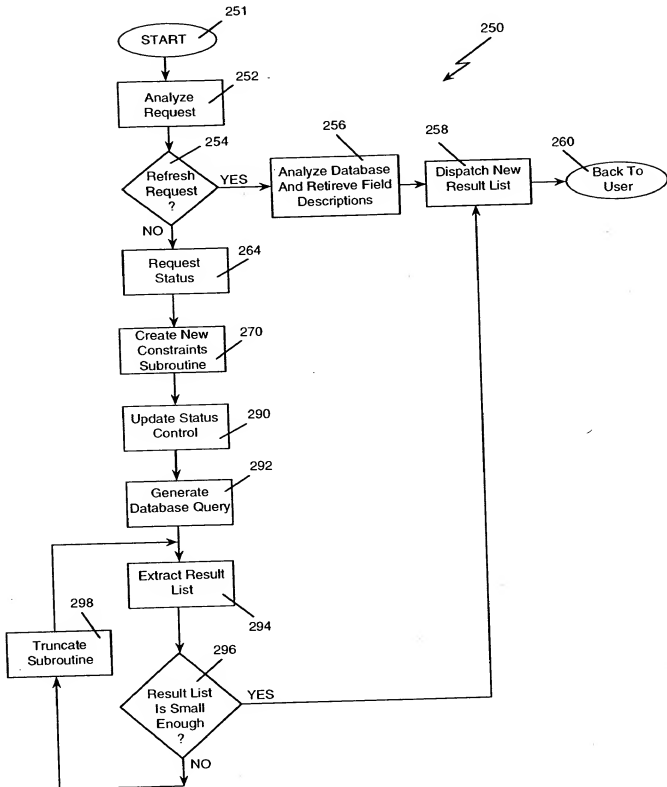


FIG. 16

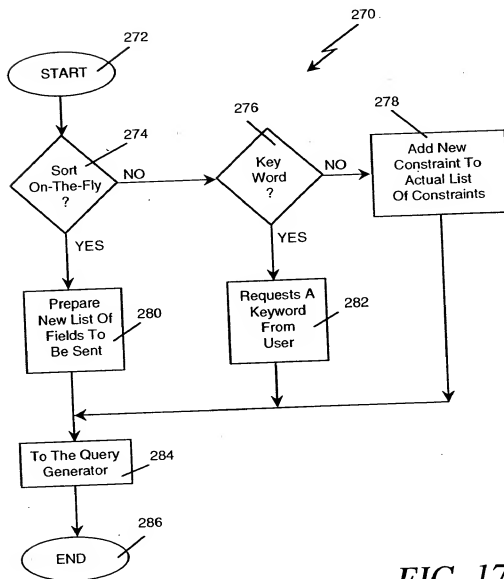


FIG. 17

09935565-08401

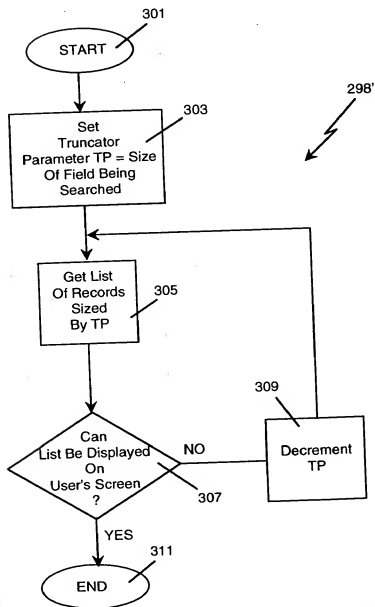


FIG. 18

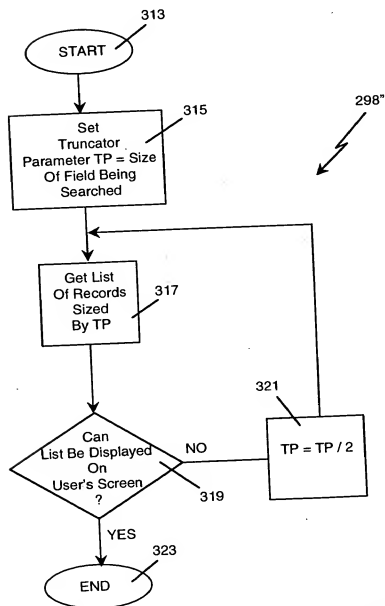


FIG. 19

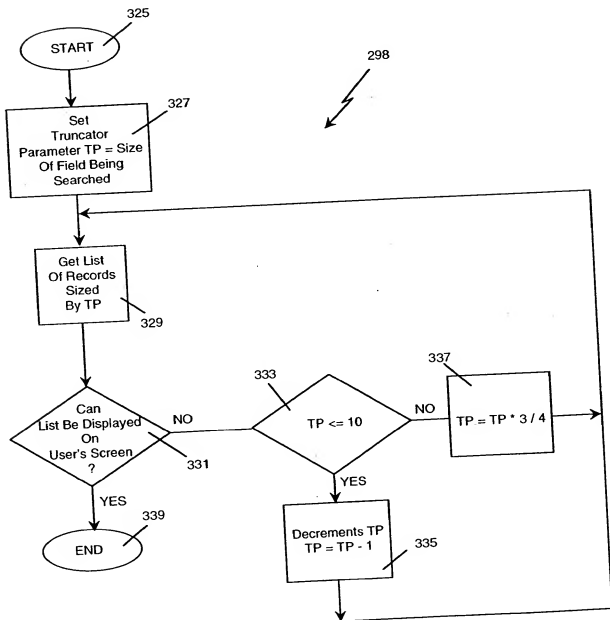
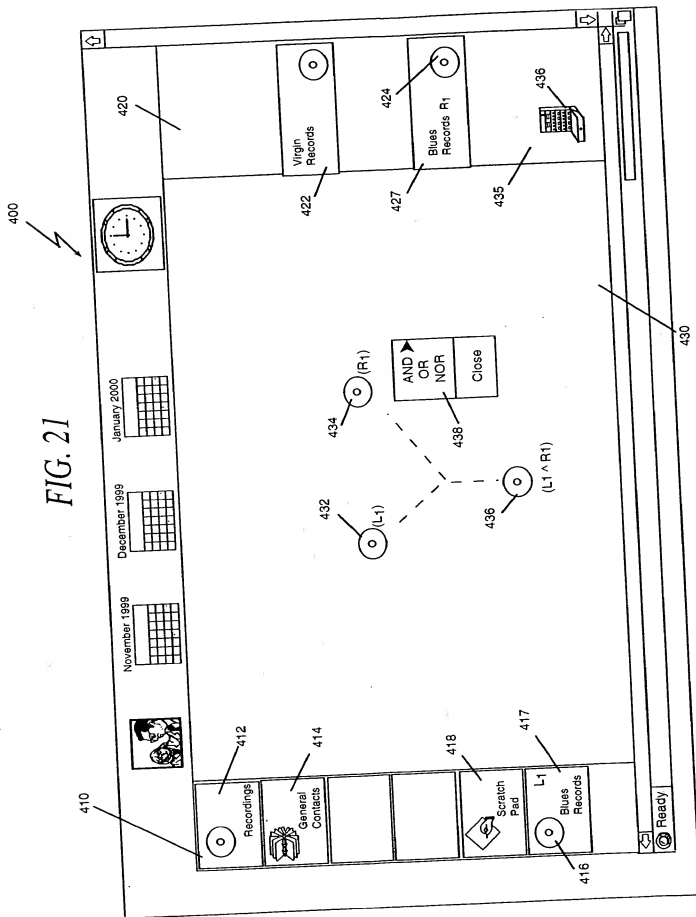


FIG. 20

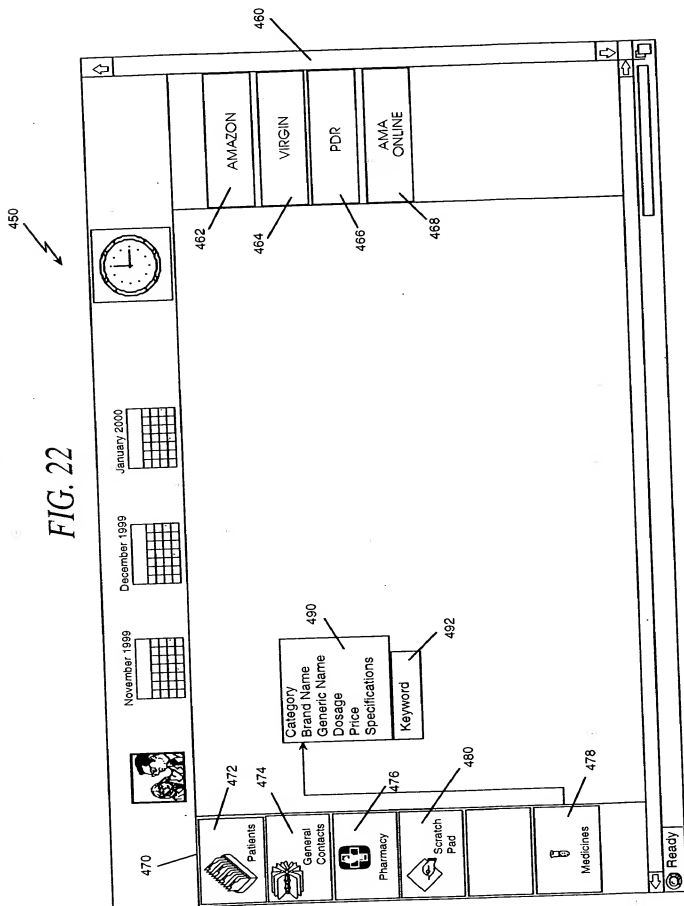
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FIG. 21



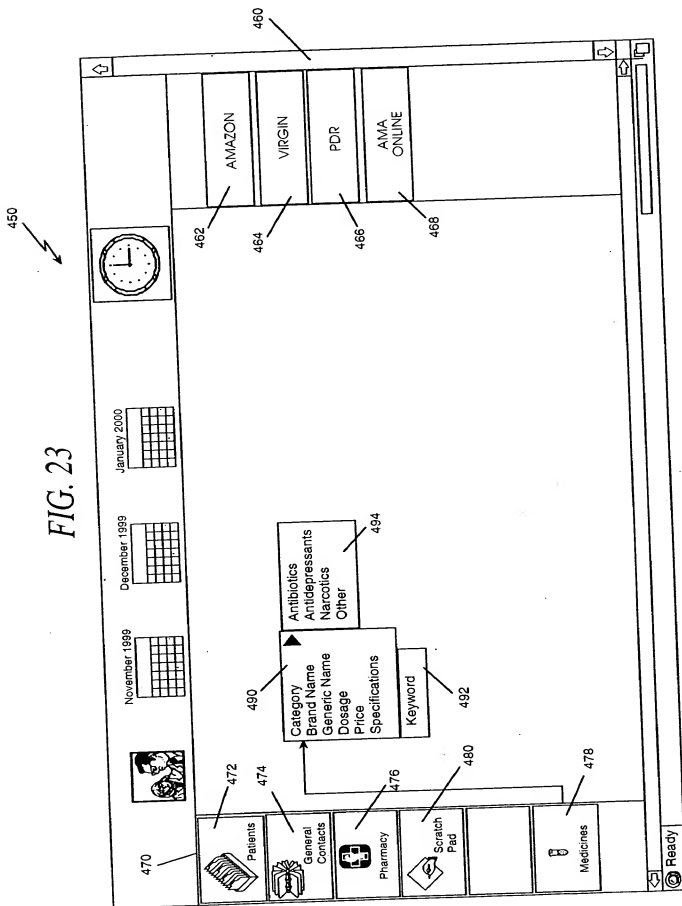
TOH280" 5955EE660

FIG. 22



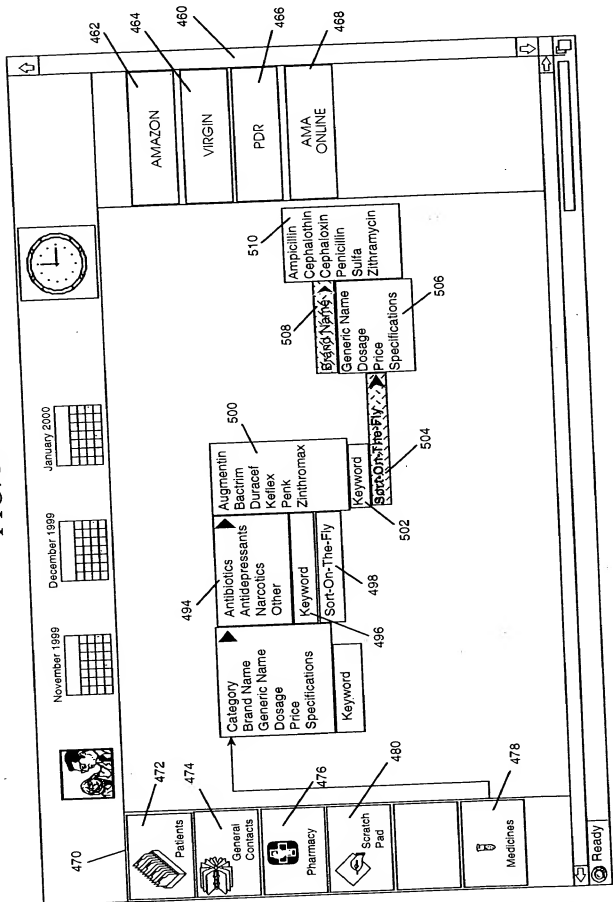
104280-9955E660

FIG. 23



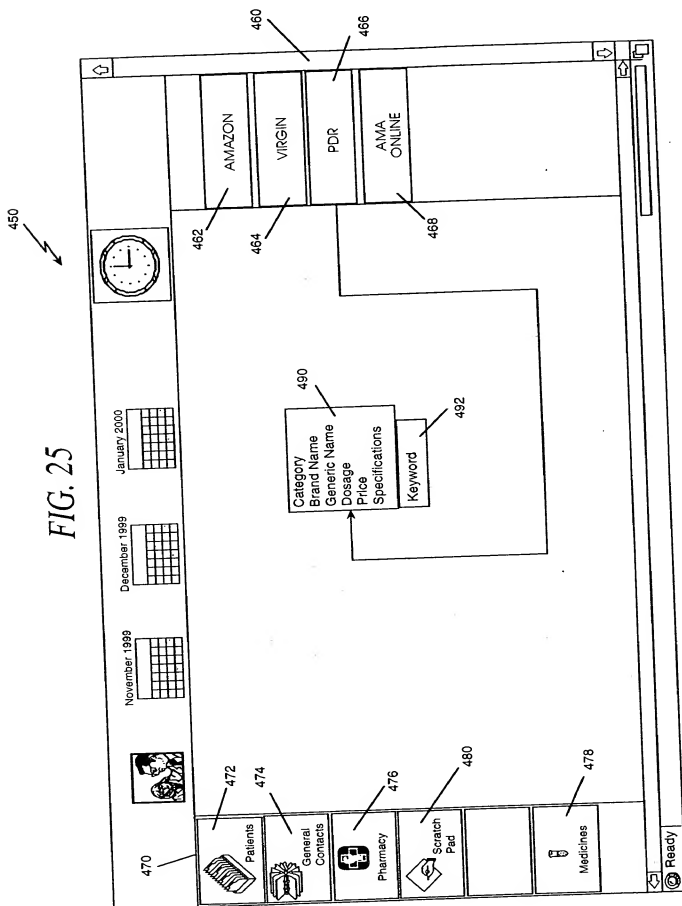
450

FIG. 24



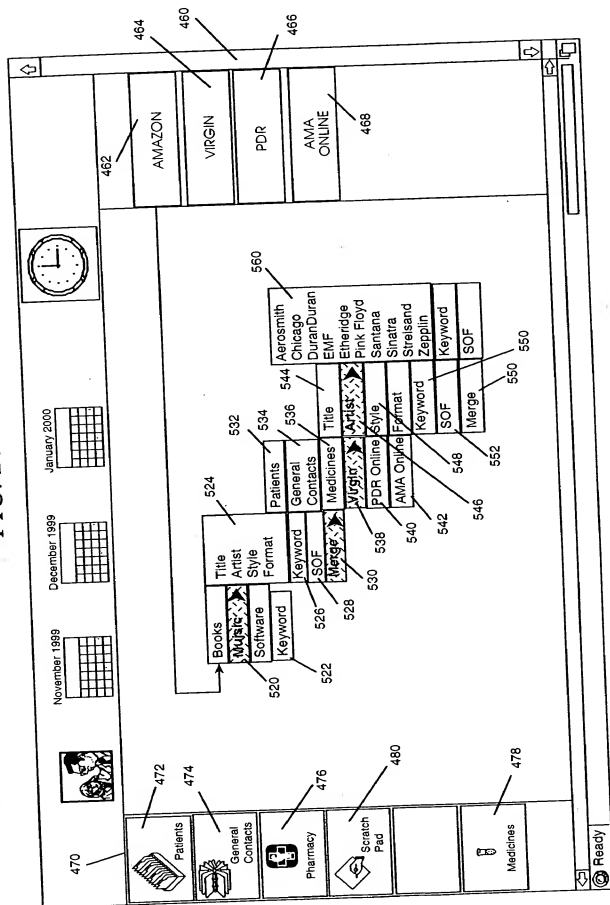
104280* S955E660

FIG. 25



TOH280" 5955E660

FIG. 26



Title: SEARCH-ON-THE-FLY WITH MERGE FUNCTION
 Inventor(s): Joseph L. DeBellis
 Contact Name: Aldo Noto (703) 288-5200
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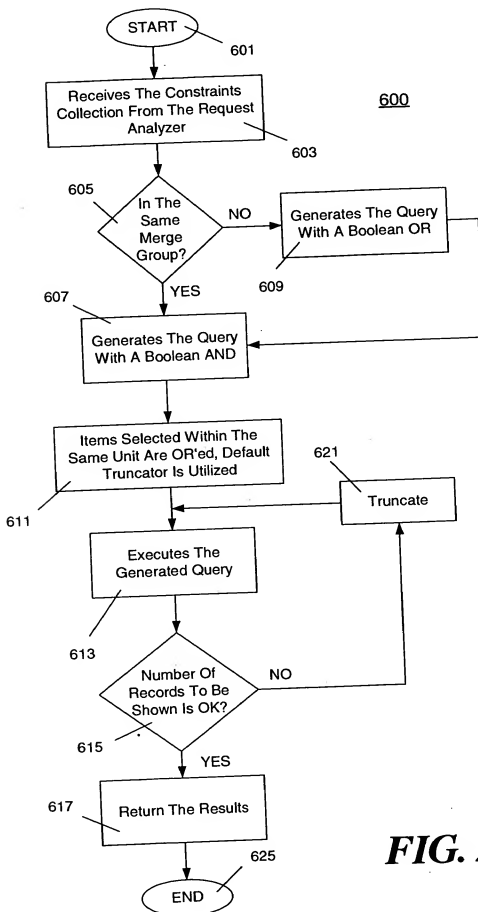


FIG. 27

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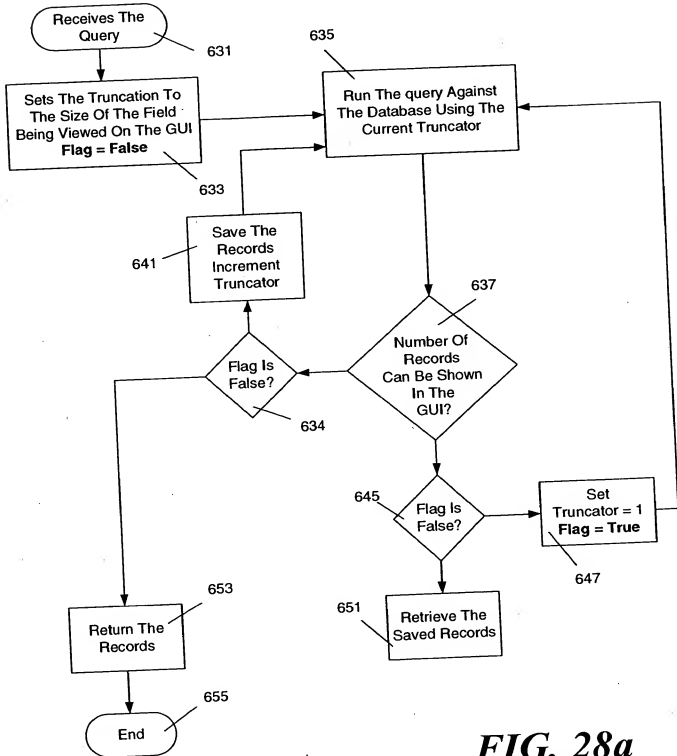


FIG. 28a

0935565.082401

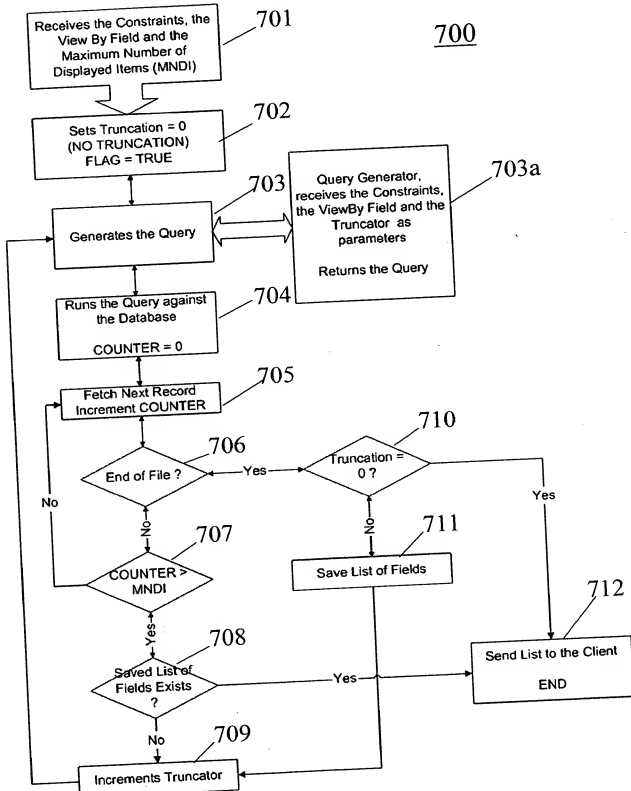


FIG. 28b

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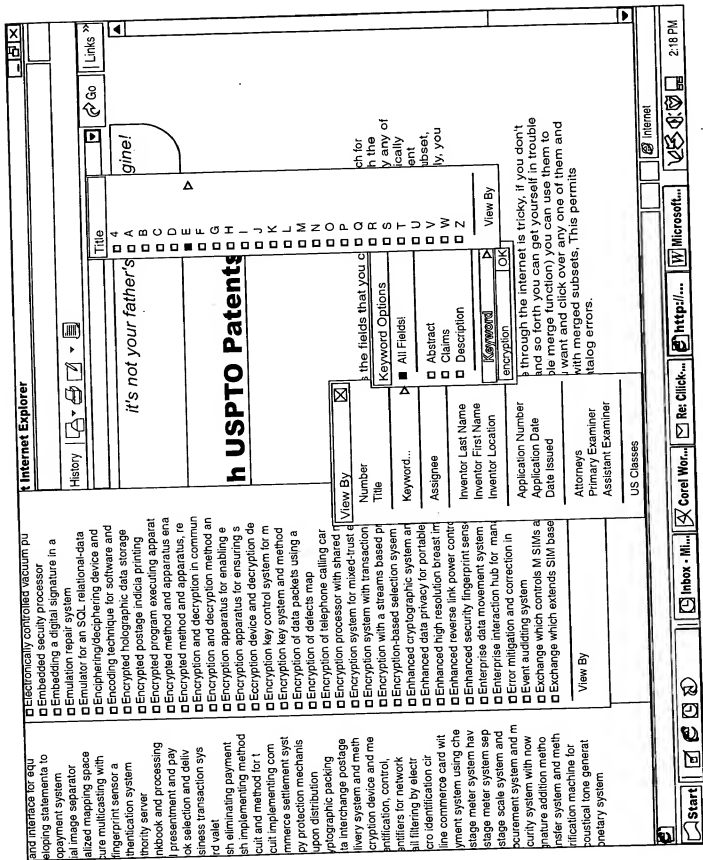
FIG. 32

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104280*59556660

Title: SEARCH-ON-THE-FLY WITH MERGE FUNCTION

Inventor(s): Joseph L. DeBellis

Contact Name: Aldo Noto (703) 288-5260

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Encrypting/decrypting device and
Encoding technique for software and
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Attorney
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Assistant Examiner

US Classes

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FIG. 38

Title: SEARCH-ON-THE-FLY WITH MERGE FUNCTION

Inventor(s): Joseph L. DeBellis

Contact Name: Aldo Noto (703) 288-5200

Attorney Docket No.: 5607

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Patent: 5935246

Electronic copy protection mechanism using challenge and response to prevent unauthorized execution of software

Date Filled:

4/11/1997

Date Issued:

8/10/1999

Application Number:

838620

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USPTO

Abstract:

A copy protection mechanism for protecting software against copying, consists of a challenge mechanism embedded in each protected item of software. The challenge mechanism has no access to the customer's private keying material. In operation, the challenge mechanism sends a random challenge to the customer's signature server. The signature server signs the challenge, using the customer's private keying material and then returns the signed challenge to the challenge mechanism. The challenge mechanism then verifies the signed challenge, using the customer's public keying material, and prohibits the customer from using some or all of the protected item of software unless the verification is successful. The mechanism permits every customer to receive an identical copy of the copy protected program with the embedded challenge mechanism.

Inventors:

Benson, Glenn Stuart

Inventor Location:

Munich, DE

Assignee:

International Computers Limited (Limited, GB)

US Classes:

713/200
713/201

International Classes:

US References:

4558176
4926480
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5109413
5146575
5224163
5315657
5371794
5436972
5568552
5724425

Foreign References:

Primary Examiner:

Kizou, Hassan

Assistant Examiner:

Mai, Rjue

Attorney:

Lee, Mann, Smith, McWilliams, Sweeney & Ohlson

Claims:

FIG. 39

0935565-032401

FIG. 40

[illegible]

062403-093565

FIG. 41

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FIG. 42

MDIForm1		Attorney		Assignee	
Div	DA	Dorciak, Fredrick J	Attorney	Arco International Corporation (St. Paul, MN)	
Dub	DB	Dorfman, Herai and Skifman		Arco Industries Limited (Osweston, AU)	
Duc	DC	Dorfman, John C		Bennett Automotive Technology Pty. Ltd. (Melbourne, AU)	
Dud	DD	Dority & Manning		Bennett Automotive Technology Pty. Ltd. (Melbourne, AU)	
Due	DE	Dority, John P., Cleaver, William E., Truex, Marshall M.		Bennett Automotive Technology Pty. Ltd. (Victoria, AU)	
Duf	DF	Dorman, Ira S.		Carlson; Chesley F. (Plymouth, MN)	
Dug	DG	Dorman, William S.		Carlson-Day Company (Minneapolis, MN)	
Duh	DH	Dorr, Carlson, Sloan & Peterson		Chesley F. Carlson Company (Plymouth, MN)	
Dui	DI	Dorr, Carlson, Sloan & Peterson		Cleair Engineering Pty. Ltd. (AU)	
Duj	DJ	Dorr, Carlson, Sloan & Peterson		CyberOptics Corporation (Minneapolis, MN)	
Duk	DK	Dorsey & Whitney		E.F. Johnson Company (Waseca, MN)	
Dul	DL	Dorsey, Daniel K.	Attorney	EquiMed Corporation (Plymouth, MN)	
Dum	DM	Dorsey, Marquart, Windhorst, West & Halladay		General Mills, Inc. (Minneapolis, MN)	
Dun	DN	Dorsey, Windhorst, Hannaford, Whitney & Halladay		Hutchinson Technology, Inc. (Minneapolis, MN)	
Duo	DO	View By...		John A. Dalsin & Son, Inc. (Minneapolis, MN)	
Dur	DR			K.O. Lee Company (Aberdeen, SD)	
Dus	DS			Ki-On Trading Co. Ltd. (Seoul, KR)	
Dut	DT			Kroy Inc. (Scottsdale, AZ)	
Dux	DX			Kroy Inc. (St. Paul, MN)	
Duy	DY			Loran Maintenance of Way, Inc. (Hamet, MN)	
Dv	DV			National Computer Systems, Inc. (Eden Prairie, MN)	
Dw	DW			National Computer Systems, Inc. (Minneapolis, MN)	
Dx	DX			Red Devil Equipment Company (Bloomington, MN)	
Dy	DY			Scherping Systems, Inc. (Winsted, MN)	
Dz	DZ			Sentry Technologies, Inc. (Chamasson, MN)	
DA	DA			Shering Systems, Inc. (Winehead, MN)	
DB	DB			SystemOne Holdings, Inc. (Houston, TX)	
DC	DC			Tol-O-Matic, Inc. (Minneapolis, MN)	
DD	DD			Waldorf Corporation (St. Paul, MN)	
DE	DE			Wenger Corporation (Owensboro, MN)	
DF	DF				
DG	DG				
DH	DH				
DI	DI				
DJ	DJ				
DK	DK				
DL	DL				
DM	DM				
DN	DN				
DO	DO				
DP	DP				
DQ	DQ				
DR	DR				
DS	DS				
DT	DT				
DU	DU				
DV	DV				
DW	DW				
DX	DX				
DY	DY				
DZ	DZ				
DA	DA				
DB	DB				
DC	DC				
DD	DD				
DE	DE				
DF	DF				
DG	DG				
DH	DH				
DI	DI				
DJ	DJ				
DK	DK				
DL	DL				
DM	DM				
DN	DN				
DO	DO				
DP	DP				
DQ	DQ				
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DS	DS				
DT	DT				
DU	DU				
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DX	DX				
DY	DY				
DZ	DZ				
DA	DA				
DB	DB				
DC	DC				
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DI	DI				
DJ	DJ				
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DS	DS				
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DU	DU				
DV	DV				
DW	DW				
DX	DX				
DY	DY				
DZ	DZ				
DA	DA				
DB	DB				
DC	DC				
DD	DD				
DE	DE				
DF	DF				
DG	DG				
DH	DH				
DI	DI				
DJ	DJ				
DK	DK				
DL	DL				
DM	DM				
DN	DN				
DO	DO				
DP	DP				
DQ	DQ				
DR	DR				
DS	DS				
DT	DT				
DU	DU				
DV	DV				
DW	DW				
DX	DX				
DY	DY				
DZ	DZ				
DA	DA				
DB	DB				
DC	DC				
DD	DD				
DE	DE				
DF	DF				
DG	DG				
DH	DH				
DI	DI				
DJ	DJ				
DK	DK				
DL	DL				
DM	DM				
DN	DN				
DO	DO				
DP	DP				
DQ	DQ				
DR	DR				
DS	DS				
DT	DT				
DU	DU				
DV	DV				
DW	DW				
DX	DX				
DY	DY				
DZ	DZ				
DA	DA				
DB	DB				
DC	DC				
DD	DD				
DE	DE				
DF	DF				
DG	DG				
DH	DH				
DI	DI				
DJ	DJ				
DK	DK				
DL	DL				
DM	DM				
DN	DN				
DO	DO				
DP	DP				
DQ	DQ				
DR	DR				
DS	DS				
DT	DT				
DU	DU				
DV	DV				
DW	DW				
DX	DX				

FIG. 43

NDForm1		S.O.F.		Attorney		Assignee	
D/A	D/V	Dor	Dor	Dor	Dor	Dor	Dor
D	Dik	Dor	Dor	Dor	Dor	Dor	Dor
Dab	Dob	Dor	Dor	Dor	Dor	Dor	Dor
Dac	Doc	Dor	Dor	Dor	Dor	Dor	Dor
Dad	Dod	Dor	Dor	Dor	Dor	Dor	Dor
Dae	Doe	Dor	Dor	Dor	Dor	Dor	Dor
Daf	Dof	Dor	Dor	Dor	Dor	Dor	Dor
Dag	Dog	Dor	Dor	Dor	Dor	Dor	Dor
Dah	Doh	Dor	Dor	Dor	Dor	Dor	Dor
Dai	Doi	Dor	Dor	Dor	Dor	Dor	Dor
Daj	Doj	Dor	Dor	Dor	Dor	Dor	Dor
Dak	Dok	Dor	Dor	Dor	Dor	Dor	Dor
Dal	Dol	Dor	Dor	Dor	Dor	Dor	Dor
Dam	Dom	Dor	Dor	Dor	Dor	Dor	Dor
Dan	Don	Dor	Dor	Dor	Dor	Dor	Dor
Dao	Doo	Dor	Dor	Dor	Dor	Dor	Dor
Dap	Dou	Dor	Dor	Dor	Dor	Dor	Dor
Daq	Dow	Dor	Dor	Dor	Dor	Dor	Dor
Dar	Doy	Dor	Dor	Dor	Dor	Dor	Dor
Das	Dra	Dor	Dor	Dor	Dor	Dor	Dor
Dat	Dre	Dor	Dor	Dor	Dor	Dor	Dor
Dau	Dri	Dor	Dor	Dor	Dor	Dor	Dor
Dav	Dro	Dor	Dor	Dor	Dor	Dor	Dor
Daw	Dru	Dor	Dor	Dor	Dor	Dor	Dor
Dax	Dry	Dor	Dor	Dor	Dor	Dor	Dor
Dbb	Dub	Dor	Dor	Dor	Dor	Dor	Dor
Dbe	Duc	Dor	Dor	Dor	Dor	Dor	Dor
Dbc	Dud	Dor	Dor	Dor	Dor	Dor	Dor
Dbd	Duf	Dor	Dor	Dor	Dor	Dor	Dor
Dbe	Dug	Dor	Dor	Dor	Dor	Dor	Dor
Dbf	Duk	Dor	Dor	Dor	Dor	Dor	Dor
Dbg	Dul	Dor	Dor	Dor	Dor	Dor	Dor
Dbh	Dum	Dor	Dor	Dor	Dor	Dor	Dor
Dbi	Dun	Dor	Dor	Dor	Dor	Dor	Dor
Dbj	Dur	Dor	Dor	Dor	Dor	Dor	Dor
Dbk	Dus	Dor	Dor	Dor	Dor	Dor	Dor
Dbl	Dut	Dor	Dor	Dor	Dor	Dor	Dor
Dbm	Duz	Dor	Dor	Dor	Dor	Dor	Dor
Dbn	Dvo	Dor	Dor	Dor	Dor	Dor	Dor
Dbo	Dwa	Dor	Dor	Dor	Dor	Dor	Dor
Dbp	Dwb	Dor	Dor	Dor	Dor	Dor	Dor
Dbr	Dwy	Dor	Dor	Dor	Dor	Dor	Dor
Dbs	Dyb	Dor	Dor	Dor	Dor	Dor	Dor
Dbt	Dyk	Dor	Dor	Dor	Dor	Dor	Dor
Dbu	Dys	Dor	Dor	Dor	Dor	Dor	Dor
Dbv	Dip	Dor	Dor	Dor	Dor	Dor	Dor
Dbw	Dit	Dor	Dor	Dor	Dor	Dor	Dor
Dbx	Dit	Dor	Dor	Dor	Dor	Dor	Dor
Dby	Dit	Dor	Dor	Dor	Dor	Dor	Dor
Dbz	Dit	Dor	Dor	Dor	Dor	Dor	Dor
Dca	Dit	Dor	Dor	Dor	Dor	Dor	Dor
Dcb	Dit	Dor	Dor	Dor	Dor	Dor	Dor
Dcc	Dit	Dor	Dor	Dor	Dor	Dor	Dor
Dcd	Dit	Dor	Dor	Dor	Dor	Dor	Dor
Dce	Dit	Dor	Dor	Dor	Dor	Dor	Dor
Dcf	Dit	Dor	Dor	Dor	Dor	Dor	Dor
Dcg	Dit	Dor	Dor	Dor	Dor	Dor	Dor
Dch	Dit	Dor	Dor	Dor	Dor	Dor	Dor
Dci	Dit	Dor	Dor	Dor	Dor	Dor	Dor
Dcj	Dit	Dor	Dor	Dor	Dor	Dor	Dor
Dck	Dit	Dor	Dor	Dor	Dor	Dor	Dor
Dcl	Dit	Dor	Dor	Dor	Dor	Dor	Dor
Dcm	Dit	Dor	Dor	Dor	Dor	Dor	Dor
Dcn	Dit	Dor	Dor				

FIG. 45

[illegible]

FIG. 46

S.O.F.		MDI Form 1	
		Primary Examiner	Dalline, Jr. DiPrincio Dixon, W Dixon, Harold Dixson, Joseph Dixson, Jr. Dixon, Willi Dixon, Harold Dixson, Jr. Dixson, Jr. Doback, B. Doback, Benj Doback, G. Doback, H. Dohmstedt Do John Donovan, Lin Dority Carlo Dority Caro Dority Carr Dority, Jr. Dority, Jr. Dorner Kerne Dorner, Kenn Dost, Gerald Doty, John Douglass, Le Douglas Wins Downey, K. Downey, Kenn Downey, Mary Draper, Garr Drezen, Norm Drezin, Norm Drodge, Jose Drummond, Dou Drummond, Dou Dugan, Donov Dugan, James Dugga, Donov Duggan, Dono Duzan, James Dwyer, James Dzielzynski, Dzierzynski, View By...
		Primary Examiner	Deas, Lawrence Dan, Hoang C Dang, Hong Dang, Thi Das, Wal Das, Donald Dass, Dorid Daus, Douglas Dauss, Donald David Smith, Davie, James Davis, Jr., A. Davis, Albert Davis, C. Davis, Curti Davis, Curti Davis, J. A. Davis, J. Davis, J. Davis, Curti Dawson, Robe Dayalan, D.G De Boer, Tod Dean, Jr., R Dean, R. Dean, Richard Dean, W. Dear, R. DeBoer, Todd Diechle, Ant Deck, Randall Dees, Carl F Dees, Jose Dees, Jose G Dees, Josef Dees, JoseG. Deferiet, Paul Demew, Palle Denney, Arth DeNino, Thom DeKille, Dan Denton, Berna Dert, Berna Dermoning, Desmond, Eug Di Palma, Vi Diehl, Dwight Dies, Philip View By...
		Primary Examiner	0 1 2 3 4 5 6 7 A B C D E F G H I J K L M N O P Q R S T U V W X Y Z View By...
		ViewBy	
		Title	
		Patent Number	
		Inventor Name	
		Inventor's Location	
		US References	
		Foreign References	
		US Classes	
		International Classes	
		Application Number	
		Application Date	
		Issue Date	
		Primary Examiner	
		Assistant Examiner	
		Assignee	

FIG. 47

Assignee		View By...	
1	Ulano Corporation (Globovin, NY)	U	U
2	Ulrich's; Charles D. (Newbury Park, CA)	U	U
3	Ullmann Holdings Pty. Ltd. (New South Wales, AU)	Ua	Ua
4	Ullrich (Paris, FR)	Uc	Uc
5	Ulrich Luboschik (DE)	Ud	Ud
6	Ulrich Propeller AS (NO)	Ue	Ue
7	Ultimate Inc. (Galesburg, IA)	Uf	Uf
8	Ultimate Window Components, Inc. (Lakeview, CO)	Ug	Ug
9	Ultra Light Arms, Inc. (Granville, WV)	Uh	Uh
10	Ultra Tech, Inc. (Ogden, UT)	Ui	Ui
11	Ultra Tech Corporation (Green Bay, WI)	Um	Um
12	Ultra-Tech Corporation (Albino, IL)	Un	Un
13	Ultra-Tech Corporation (Albino, IL)	Uo	Uo
14	Ultra-Tech Corporation (Albino, IL)	Up	Up
15	Ultra-Tech Corporation (Albino, IL)	Uq	Uq
16	Ultra-Tech Corporation (Albino, IL)	Ur	Ur
17	Ultra-Tech Corporation (Albino, IL)	Us	Us
18	Ultra-Tech Corporation (Albino, IL)	Ut	Ut
19	Ultra-Tech Corporation (Albino, IL)	Uv	Uv
20	Ultra-Tech Corporation (Albino, IL)	Uw	Uw
21	Ultra-Tech Corporation (Albino, IL)	Ux	Ux
22	Ultra-Tech Corporation (Albino, IL)	Uy	Uy
23	Ultra-Tech Corporation (Albino, IL)	Uz	Uz
24	Ultra-Tech Corporation (Albino, IL)	Ua	Ua
25	Ultra-Tech Corporation (Albino, IL)	Ub	Ub
26	Ultra-Tech Corporation (Albino, IL)	Uc	Uc
27	Ultra-Tech Corporation (Albino, IL)	Ud	Ud
28	Ultra-Tech Corporation (Albino, IL)	Ue	Ue
29	Ultra-Tech Corporation (Albino, IL)	Uf	Uf
30	Ultra-Tech Corporation (Albino, IL)	Ug	Ug
31	Ultra-Tech Corporation (Albino, IL)	Uh	Uh
32	Ultra-Tech Corporation (Albino, IL)	Ui	Ui
33	Ultra-Tech Corporation (Albino, IL)	Um	Um
34	Ultra-Tech Corporation (Albino, IL)	Un	Un
35	Ultra-Tech Corporation (Albino, IL)	Uo	Uo
36	Ultra-Tech Corporation (Albino, IL)	Up	Up
37	Ultra-Tech Corporation (Albino, IL)	Uq	Uq
38	Ultra-Tech Corporation (Albino, IL)	Ur	Ur
39	Ultra-Tech Corporation (Albino, IL)	Us	Us
40	Ultra-Tech Corporation (Albino, IL)	Ut	Ut
41	Ultra-Tech Corporation (Albino, IL)	Uv	Uv
42	Ultra-Tech Corporation (Albino, IL)	Uw	Uw
43	Ultra-Tech Corporation (Albino, IL)	Ux	Ux
44	Ultra-Tech Corporation (Albino, IL)	Uy	Uy
45	Ultra-Tech Corporation (Albino, IL)	Uz	Uz
46	Ultra-Tech Corporation (Albino, IL)	Ua	Ua
47	Ultra-Tech Corporation (Albino, IL)	Ub	Ub
48	Ultra-Tech Corporation (Albino, IL)	Uc	Uc
49	Ultra-Tech Corporation (Albino, IL)	Ud	Ud
50	Ultra-Tech Corporation (Albino, IL)	Ue	Ue
51	Ultra-Tech Corporation (Albino, IL)	Uf	Uf
52	Ultra-Tech Corporation (Albino, IL)	Ug	Ug
53	Ultra-Tech Corporation (Albino, IL)	Uh	Uh
54	Ultra-Tech Corporation (Albino, IL)	Ui	Ui
55	Ultra-Tech Corporation (Albino, IL)	Um	Um
56	Ultra-Tech Corporation (Albino, IL)	Un	Un
57	Ultra-Tech Corporation (Albino, IL)	Uo	Uo
58	Ultra-Tech Corporation (Albino, IL)	Up	Up
59	Ultra-Tech Corporation (Albino, IL)	Uq	Uq
60	Ultra-Tech Corporation (Albino, IL)	Ur	Ur
61	Ultra-Tech Corporation (Albino, IL)	Us	Us
62	Ultra-Tech Corporation (Albino, IL)	Ut	Ut
63	Ultra-Tech Corporation (Albino, IL)	Uv	Uv
64	Ultra-Tech Corporation (Albino, IL)	Uw	Uw
65	Ultra-Tech Corporation (Albino, IL)	Ux	Ux
66	Ultra-Tech Corporation (Albino, IL)	Uy	Uy
67	Ultra-Tech Corporation (Albino, IL)	Uz	Uz
68	Ultra-Tech Corporation (Albino, IL)	Ua	Ua
69	Ultra-Tech Corporation (Albino, IL)	Ub	Ub
70	Ultra-Tech Corporation (Albino, IL)	Uc	Uc
71	Ultra-Tech Corporation (Albino, IL)	Ud	Ud
72	Ultra-Tech Corporation (Albino, IL)	Ue	Ue
73	Ultra-Tech Corporation (Albino, IL)	Uf	Uf
74	Ultra-Tech Corporation (Albino, IL)	Ug	Ug
75	Ultra-Tech Corporation (Albino, IL)	Uh	Uh
76	Ultra-Tech Corporation (Albino, IL)	Ui	Ui
77	Ultra-Tech Corporation (Albino, IL)	Um	Um
78	Ultra-Tech Corporation (Albino, IL)	Un	Un
79	Ultra-Tech Corporation (Albino, IL)	Uo	Uo
80	Ultra-Tech Corporation (Albino, IL)	Up	Up
81	Ultra-Tech Corporation (Albino, IL)	Uq	Uq
82	Ultra-Tech Corporation (Albino, IL)	Ur	Ur
83	Ultra-Tech Corporation (Albino, IL)	Us	Us
84	Ultra-Tech Corporation (Albino, IL)	Ut	Ut
85	Ultra-Tech Corporation (Albino, IL)	Uv	Uv
86	Ultra-Tech Corporation (Albino, IL)	Uw	Uw
87	Ultra-Tech Corporation (Albino, IL)	Ux	Ux
88	Ultra-Tech Corporation		

FIG. 48

[illegible]

start

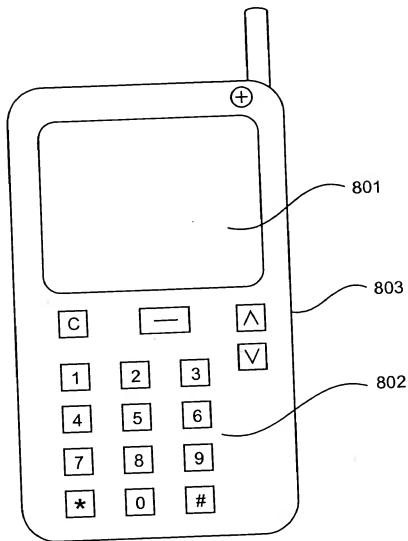
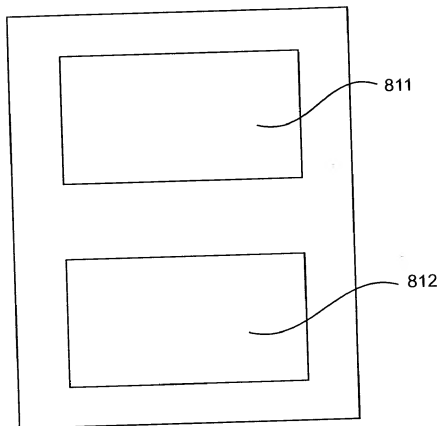


FIG. 50

09935565-082401



810

FIG. 51

09935565 082401
104280" 59553660

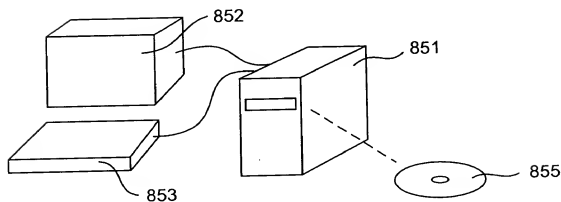


Title: SEARCH-ON-THE-FLY WITH MERGE FUNCTION

Inventor(s): Joseph L. DeBellis

Contact Name: Aldo Noto (703) 288-5240

Attorney Docket No.: 5607



850

FIG. 53

0935565.084401